

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 10 (cancelled)

Claims 3, 6-8, 15-20, and 22-33 (withdrawn)

Claim 1 (currently amended): A health supplement composition for mammals for improving memory and cognitive abilities comprising:

at least one phosphoester in a daily amount of between approximately 500 mg and approximately ~~26.8 g~~ 1000 mg; and

~~at least one synergistic antioxidant combination, wherein said synergistic antioxidant combination comprises at least one antioxidant and at least one other composition component that has a synergistic relationship with said antioxidant;~~

wherein said use on mammals comprises prevention or treatment of illnesses or conditions selected from the group consisting of a condition requiring memory improvement, cognitive improvement, AIDS-associated dementia, Alzheimer's disease, benign senile forgetfulness, Down's syndrome-associated dementia, Lewy body dementia, multi-infarct dementia, multiple sclerosis, Parkinson's disease-associated dementia, tardive dyskinesia, Wernicke-Korsikoff syndrome, and alcoholism-associated dementia.

Claim 2 (previously amended): The composition of claim 1 wherein said at least one phosphoester is selected from the group consisting of phosphatidylcholine, phosphatidylserine, phosphatidylethanolamine and phosphatidylinositol.

Claim 4 (currently amended): The composition of claim 1 wherein said at least one antioxidant ~~combination~~ comprises at least one member selected from the group of antioxidants consisting of herbal, amino acid, mineral, and vitamin antioxidants.

Claim 5 (currently amended): The composition of claim 4 wherein said herbal antioxidant comprises at least one member selected from compounds derived from the group consisting of bioflavonoids, citrus fruits, citrus peels, curcuma, ginkgo biloba, ginseng, gotu kola, proanthocyanidins, quercetin, and Siberian ginseng.

Claim 9 (currently amended): The composition of claim 1, wherein said composition comprises at least one application method selected from the group consisting of ~~oral~~, parenteral, rectal, and topical administration.

Claim 11 and Claim 12 (cancelled)

Claim 13 (currently amended): The composition of claim 4 wherein said herbal antioxidant comprises a daily dosage of between approximately 0 mg and approximately 7 mg of barberry, between approximately 0 mg and approximately 70 mg of bilberry proanthocyanidins, between approximately 0 mg and approximately 150 mg of lemon bioflavonoids, between approximately 0 mg and approximately 150 mg of lime bioflavonoids, between approximately 0 mg and approximately 150 mg of orange bioflavonoids, between approximately 0 mg and approximately 1000 mg of curcuma, between approximately 0 mg and approximately 2 mg of garlic bioflavonoids, between approximately 0 mg and approximately ~~180~~ 250 mg of ginkgo biloba, between approximately 0 mg and approximately 2000 mg of ginseng, between approximately 0 mg and approximately 100 mg of gotu kola, between approximately 0 mg and approximately 1000 mg of grape seed proanthocyanidins, between approximately 0 mg and approximately 1000 mg of red apple quercetin, between approximately 0 mg and approximately 1000 mg of red onion quercetin, and between approximately 0 mg and approximately 400 mg of Siberian ginseng, wherein at least one component in said composition is present in an amount greater than ~~500~~ 0 mg.

Claim 14 (currently amended): The composition of claim 4 wherein said herbal antioxidant comprises a daily dosage of between approximately ~~0~~ 1 mg and approximately 35 mg of barberry, between approximately 20 mg and approximately ~~35~~ 50 mg of bilberry proanthocyanidins, between approximately 50 mg and approximately ~~75~~ 100 mg of lemon bioflavonoids, between approximately 50 mg and approximately ~~75~~ 100 mg of lime bioflavonoids, between approximately 50 mg and approximately ~~75~~ 100 mg orange bioflavonoids, between approximately 400 mg and approximately ~~500~~ 600 mg of curcuma, between approximately 0.1 mg and approximately 1 mg of garlic bioflavonoid, between approximately ~~0~~ 25 mg and approximately ~~250~~ 100 mg of ginkgo biloba, between approximately ~~0~~ 5 mg and approximately 1000 mg of ginseng, between approximately 50 mg and approximately ~~50~~ 100 mg of gotu kola, between approximately ~~0~~ 175 mg and approximately ~~500~~ 250 mg of grape seed proanthocyanidins, between approximately 100 mg and approximately 500 mg of red apple quercetin, between approximately 100 mg and approximately 500 mg of red onion quercetin, and between approximately 100 mg and approximately ~~200~~ 400 mg Siberian ginseng, wherein at least one component in said composition is present in an amount greater than 0 mg.

Claim 21 (currently amended): The composition of claim 1 wherein said synergistic antioxidant compound comprises at least one phosphoester and at least one herbal antioxidant.

Claim 34 (cancelled)

Claim 35 (cancelled)

Claim 36 (new): The composition of claim 1 wherein said phosphoester is phosphatidylcholine.

Claim 37 (new): The composition of claim 36 wherein said phosphoester further comprises phosphatidylserine.

Claim 38 (new): The composition of claim 36 wherein said phosphoester further comprises phosphatidylinositol.

Claim 39 (new): The composition of claim 36 wherein said phosphoester further comprises phosphatidylethanolamine.

Claim 40 (new): The composition of claim 1 further comprising a fatty acid.

Claim 41 (new): The composition of claim 1 wherein said composition is administerable via an oral application method.

Claim 42 (new): The composition of claim 36 wherein said phosphatidylcholine comprises a daily dosage of between approximately 600 mg and 700 mg.

Claim 43 (new): The composition of claim 1 wherein said at least one antioxidant comprises at least one amino acid.

Claim 44 (new): The composition of claim 1 wherein said at least one antioxidant comprises at least one mineral.

Claim 45 (new): The composition of claim 1 wherein said at least one antioxidant comprises at least one vitamin.

Claim 46 (new): The composition of claim 21 wherein said at least one antioxidant further comprises at least one amino acid.

Claim 47 (new): The composition of claim 21 wherein said at least one antioxidant further comprises at least one mineral.

Claim 48 (new): The composition of claim 21 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 49 (new): The composition of claim 46 wherein said at least one antioxidant further comprises at least one mineral.

Claim 50 (new): The composition of claim 46 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 51 (new): The composition of claim 50 wherein said at least one antioxidant further comprises at least one mineral.

Claim 52 (new): The composition of claim 48 wherein said at least one antioxidant further comprises at least one mineral.

Claim 53 (new): The composition of claim 43 wherein said at least one antioxidant further comprises at least one mineral.

Claim 54 (new): The composition of claim 43 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 55 (new): The composition of claim 44 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 56 (new): The composition of claim 53 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 57 (new): A health supplement composition for mammals for improving memory and cognitive abilities comprising;

phosphatidylethanolamine having a daily dosage of between approximately 100 mg and 500 mg; and  
at least one antioxidant.

Claim 58 (new): The composition of claim 57 wherein said phosphatidylethanolamine comprises a daily dosage of between approximately 100 mg and 350 mg.

Claim 59 (new): The composition of claim 57 further comprising phosphatidylcholine.

Claim 60 (new): The composition of claim 57 further comprising phosphatidylserine.

Claim 61 (new): The composition of claim 57 further comprising phosphatidylinositol.

Claim 62 (new): The composition of claim 57 further comprising a fatty acid.

Claim 63 (new): The composition of claim 57 wherein said antioxidant comprises at least one member selected from the group consisting of an herbal oxidant, an amino acid, a mineral, and a vitamin

Claim 64 (new): The composition of claim 63 wherein said antioxidant comprises an herbal antioxidant, an amino acid, a mineral and a vitamin.

Claim 65 (new): A health supplement composition for mammals for improving memory and cognitive abilities comprising;  
phosphatidylinositol having a daily dosage of between approximately 500 mg and 10,000 mg; and  
at least one antioxidant.

Claim 66 (new): The composition of claim 65 wherein said phosphatidylinositol comprises a daily dosage of between approximately 500 mg and 1000 mg.

Claim 67 (new): The composition of claim 65 further comprising phosphatidylcholine.

Claim 68 (new): The composition of claim 65 further comprising phosphatidylserine.

Claim 69 (new): The composition of claim 65 further comprising phosphatidylethanolamine.

Claim 70 (new): The composition of claim 65 further comprising a fatty acid.

Claim 71 (new): The composition of claim 65 wherein said antioxidant comprises at least one member selected from the group consisting of an herbal oxidant, an amino acid, a mineral, and a vitamin

Claim 72 (new): The composition of claim 71 wherein said antioxidant comprises an herbal antioxidant, an amino acid, a mineral and a vitamin.

Claim 73 (new): A health supplement composition for mammals for improving memory and cognitive abilities comprising;  
phosphatidylserine having a daily dosage of between approximately 5 mg and 300 mg;  
and  
at least one antioxidant.

Claim 74 (new): The composition of claim 73 wherein said phosphatidylserine comprises a daily dosage of between approximately 5 mg and 100 mg.

Claim 75 (new): The composition of claim 74 wherein said phosphatidylserine comprises a daily dosage of between approximately 22.5 mg and 50 mg.

Claim 76 (new): The composition of claim 73 further comprising phosphatidylcholine.

Claim 77 (new): The composition of claim 73 further comprising phosphatidylethanolamine.

Claim 78 (new): The composition of claim 73 further comprising phosphatidylinositol.

Claim 79 (new): The composition of claim 73 further comprising a fatty acid.

Claim 80 (new): The composition of claim 73 wherein said antioxidant comprises at least one member selected from the group consisting of an herbal oxidant, an amino acid, a mineral, and a vitamin

Claim 81 (new): The composition of claim 80 wherein said antioxidant comprises an herbal antioxidant, an amino acid, a mineral and a vitamin.

Claim 82 (new): A health supplement composition for mammals for improving memory and cognitive abilities comprising;

at least one phosphoester; and

at least one antioxidant having a daily dosage of between approximately 5 mg and 8000 mg.

Claim 83 (new): The composition of claim 82 wherein said daily dosage of said antioxidant comprises between approximately 5 mg and 3500 mg.

Claim 84 (new): The composition of claim 83 wherein said daily dosage of said antioxidant comprises between approximately 400 mg and 500 mg.

Claim 85 (new): The composition of claim 82 further comprising a fatty acid.

Claim 86 (new): The composition of claim 82 wherein said at least one antioxidant comprises an herbal antioxidant, an amino acid, a mineral and a vitamin.

Claim 87 (new): The composition of claim 82 wherein said at least one antioxidant comprises at least one herbal antioxidant.

Claim 88 (new): The composition of claim 82 wherein said at least one antioxidant comprises at least one amino acid.

Claim 89 (new): The composition of claim 82 wherein said at least one antioxidant comprises at least one mineral.

Claim 90 (new): The composition of claim 82 wherein said at least one antioxidant comprises at least one vitamin.

Claim 91 (new): The composition of claim 87 wherein said at least one antioxidant further comprises at least one amino acid.

Claim 92 (new): The composition of claim 87 wherein said at least one antioxidant further comprises at least one mineral.

Claim 93 (new): The composition of claim 87 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 94 (new): The composition of claim 91 wherein said at least one antioxidant further comprises at least one mineral.

Claim 95 (new): The composition of claim 91 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 96 (new): The composition of claim 94 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 97 (new): The composition of claim 92 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 98 (new): The composition of claim 88 wherein said at least one antioxidant further comprises at least one mineral.

Claim 99 (new): The composition of claim 88 wherein said at least one antioxidant further comprises at least one vitamin.

Claim 100 (new): The composition of claim 90 wherein said at least one antioxidant further comprises at least one mineral.

Claim 101 (new): The composition of claim 99 wherein said at least one antioxidant further comprises at least one mineral.

Claim 102 (new): The composition of claim 82 wherein said phosphoester comprises at least one phosphoester having a daily dosage of between approximately 500 mg and 1000 mg.

Claim 103 (new): The composition of claim 102 wherein said phosphoester comprises phosphatidylcholine having a daily dosage of between approximately 600 mg and 800 mg.



Claim 104 (new): The composition of claim 82 wherein said phosphoester comprises phosphatidylethanolamine having a daily dosage of between approximately 100 mg and 500 mg.

Claim 105 (new): The composition of claim 104 wherein said phosphatidylethanolamine has a daily dosage of between approximately 100 mg and 350 mg.

Claim 106 (new): The composition of claim 82 wherein said phosphoester comprises phosphatidylinositol having a daily dosage of between approximately 500 mg and 10,000 mg.

Claim 107 (new): The composition of claim 106 wherein said phosphatidylinositol has a daily dosage of between approximately 500 mg and 1000 mg.

Claim 108 (new): The composition of claim 82 wherein said phosphoester comprises phosphatidylserine having a daily dosage of between approximately 5 mg and 300 mg.

Claim 109 (new): The composition of claim 108 wherein said phosphatidylserine has a daily dosage of between approximately 5 mg and 100 mg.

Claim 110 (new): The composition of claim 109 wherein said phosphatidylserine has a daily dosage of between approximately 22.5 mg and 50 mg.

Claim 111 (new): The composition of claim 40 wherein said fatty acid is lipoic acid.

Claim 113 (new): The composition of claim 1 wherein said antioxidant comprises at least one member selected from the group consisting of acetyl-L-carnitine, beta carotene, betaine anhydrous (trimethylglycine), boron citrate, cayenne, chromium, coenzyme Q10, copper sebacate, betaine, bromelain, DMAE (dimethyl amino ethanol), folic acid, L-arginine, L-glutamine, L-glutathione, L-lysine, L-methionine, L-taurine, L-tyrosine, lutein, lycopene, manganese (citrate), magnesium, N-acetyl-L-cystine, papain, selenium aminoate, calcium citrate, S-adenosylmethionine, succinate (calcium base soy source), ubiquinone, vinpocetine, zeaxanthin, zinc (citrate).